

**Mumbai University**

**Question Paper**

**[IDOL – REVISED COURSE]  
(APRIL – 2015)**

**PAPER - IV**

**ELECTIVE**

**PROJECT  
MANAGEMENT**

**Time:** 3 Hours**Total Marks:** 100**N.B.:** (1) All Question are Compulsory.

(2) Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.

(3) Answer To The Same Question Must Be Written Together.

(4) Number To The Right Indicates Marks.

(5) Draw Neat Labeled Diagrams Wherever Necessary.

(6) Use of Non – Programmable Calculator is allowed.

**Q.1 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

- (A) "Project software standard is to be set by organization policy". Discuss. (5)
- (B) Enlist the factors of tailoring a software process framework. Explain any of the 4 factors in detail. (5)
- (C) Explain the best practices listed it out by "Airline Software Council". (5)
- (D) What are the 3 generations of s/w Development? Compare them. (5)

**Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) Explain Boehm's Staffing principle. (5)
- (B) Explain the principle of Conventional Software Engineering. (5)
- (C) Explain the Predominant Cost Estimation Process with suitable diagram. (5)
- (D) Explain the importance of Performance Assessment. (5)
- (E) Explain Risk Management of Convention at Software Management. (5)
- (F) Explain in detail General Quality improvements with Modern Processes. (5)

**Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) Describe the three different aspects of architecture from the Management Perspective. (5)
- (B) Describe in brief Life Cycle Phases of a Modern Software Development Process. (5)
- (C) Write a short note on Technical Perspective Architecture. (5)
- (D) List and explain the principles of Modern Software Management. (5)
- (E) Discuss in detail Engineering Artifact Sets. (5)
- (F) Write a short note on Pragmatic Artifacts. (5)

**Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) Describe the typical sequence of life cycle check points using a diagram. (5)
- (B) Explain the Major and Minor Milestones in a Project Life Cycle. (5)
- (C) Briefly discuss the perspective through which projects plans need to be derived. (5)
- (D) Write a short note on interaction workflows. (5)
- (E) List and explain the Seven Top Level Software Process Workflows. (5)
- (F) Discuss the Cost and Schedule Estimating Process. (5)

**Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) Describe the typical sequence of life cycle check points using a diagram. (5)
- (B) Explain the Major and Minor Milestones in a Project Life Cycle. (5)
- (C) Briefly discuss the perspective through which projects plans need to be derived. (5)
- (D) Write a short note on interaction workflows. (5)
- (E) List and explain the Seven Top Level Software Process Workflows. (5)
- (F) Discuss the Cost and Schedule Estimating Process. (5)

**[TURN OVER]**

**Q.6 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) Explain the software metrics required in Modern Software Management. (5)
- (B) Describe any five Core Metrics for Project Control and Process Instrumentation. (5)
- (C) Describe the basic operational concept for a Software Project Control Panel. (5)
- (D) What is scale of the Project? Explain the ways to decide the scale of project? (5)
- (E) Describe the four quality indicators in detail. (5)
- (F) Write detail note on Management Indicators with 3 Metrics. (5)

**Q.7 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)**

- (A) What is Early Risk Resolution? How it is carried out in the iterative process as early in the life cycle? Give its advantages. (5)
  - (B) Discuss in detail best practices in Software Management. (5)
  - (C) Explain the possible improvements in the next generation cost estimation models over the conventional ones. (5)
  - (D) Explain how balancing the top Ten Software Management principles archive economic results. (5)
  - (E) Explain a general structure for a Cost Estimation Model in Modern Software Process. (5)
  - (F) Explain the cultural shifts in Modern Process Transition. (5)
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